What is Claimed is:

1	1. A wireless communication system protocol comprising:
2	a wireless MAC layer providing for MAC layer acknowledgments; and
3	a TCP layer providing for TCP layer acknowledgments, wherein at
4	least some TCP layer acknowledgments are buffered by the wireless MAC layer
5	and appended to a MAC layer acknowledgment of another MAC layer message.
1	2. The wireless communication system protocol of Claim 1 wherein
2	the wireless MAC layer is a modified CSMA/CA layer.
1	3. The wireless communication system protocol of Claim 1 wherein
2	the appending of a TCP layer acknowledgment to a MAC layer acknowledgment is
3	done under conditions of asymmetrical traffic.
1	4. The wireless communication system protocol of Claim 1 wherein
2	the combined MAC layer acknowledgment and TCP layer acknowledgment does
3	not need to contend for the wireless medium.
1	5. The wireless communication system protocol of Claim 1 wherein
2	the TCP layer acknowledgments are done in response to messages from another
3	node.
1	6. The wireless communication system protocol of Claim 5 wherein
2	the other node appends an acknowledgment of the transmitted TCP layer
3	acknowledgment along with another message transmitted by the other node.

2

1	7. The wireless communication system protocol of Claim 1 wherein a
2	MAC acknowledgment is sent to provide MAC layer acknowledgment of receipt
3	of TCP acknowledgment appended message.
1	8. The wireless communication system protocol of Claim 1 wherein
2	the TCP acknowledgment is sent only when link quality is very good.
1	9. A method operating a MAC layer comprising:
2	obtaining a TCP acknowledgment from a TCP layer, the TCP layer
3	producing the TCP acknowledgment when a predetermined number of TCP
4	messages are received;
5	buffering the TCP acknowledgment; and
6	appending the TCP acknowledgment to a MAC acknowledgment of
7	another message.
1	10. The method of Claim 9 wherein the MAC layer comprises a
2	modified CSMA/CA protocol.
1	11. The method of Claim 9 wherein the other node appends another

acknowledgment to a message in response to the TCP acknowledgment.